

Fig. 3

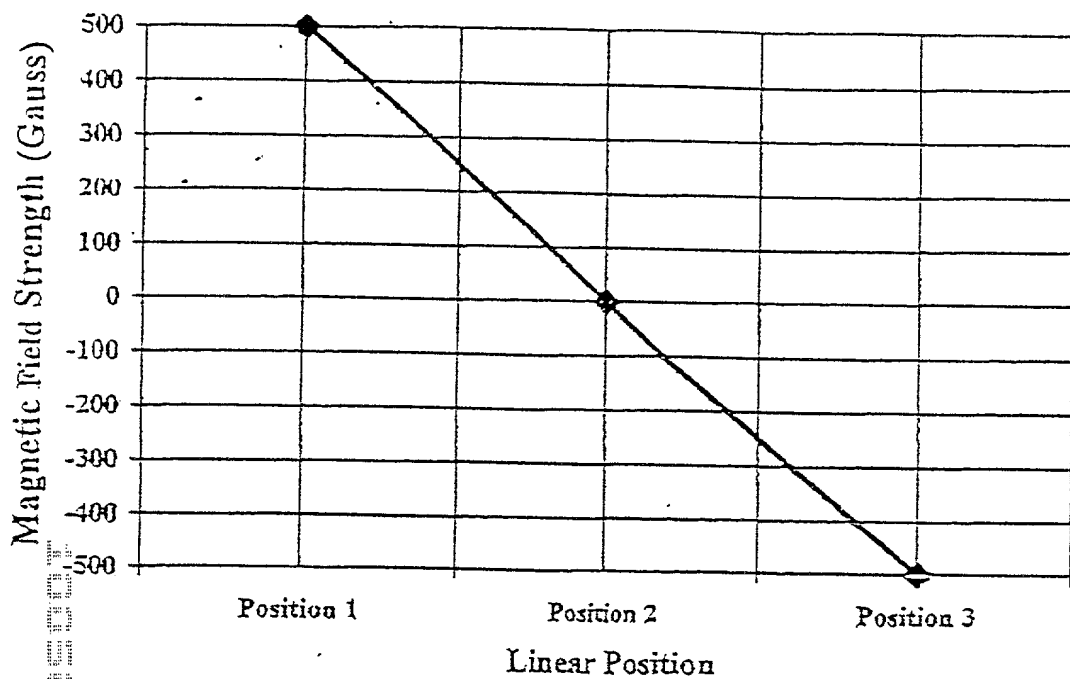


Fig. 4

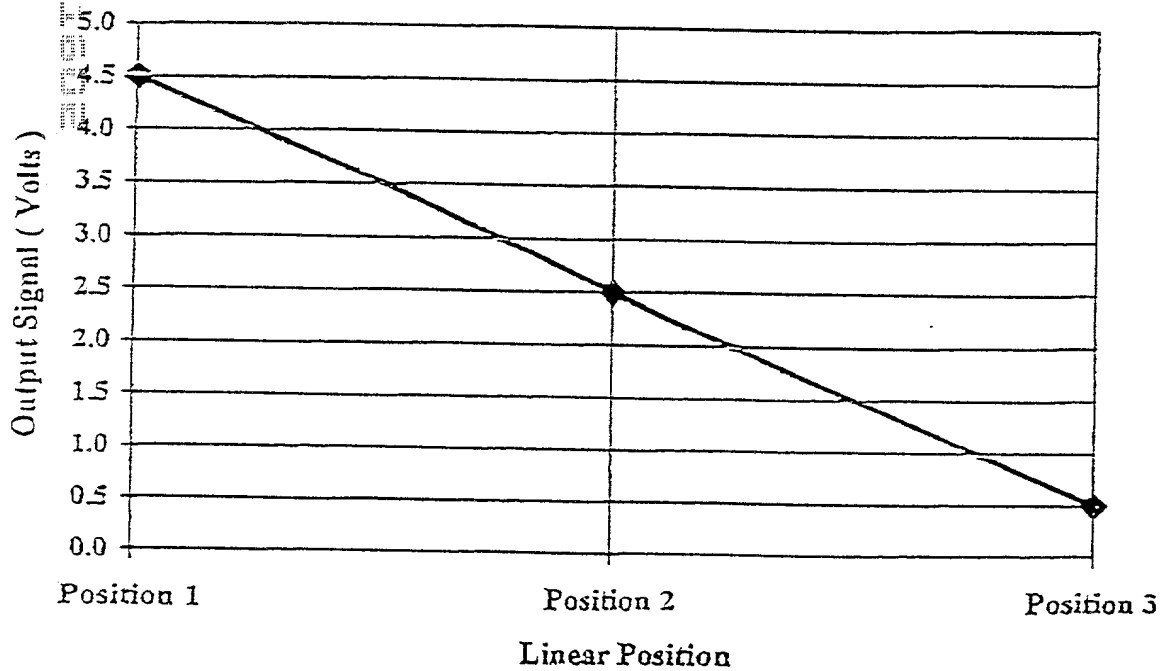


Fig. 5

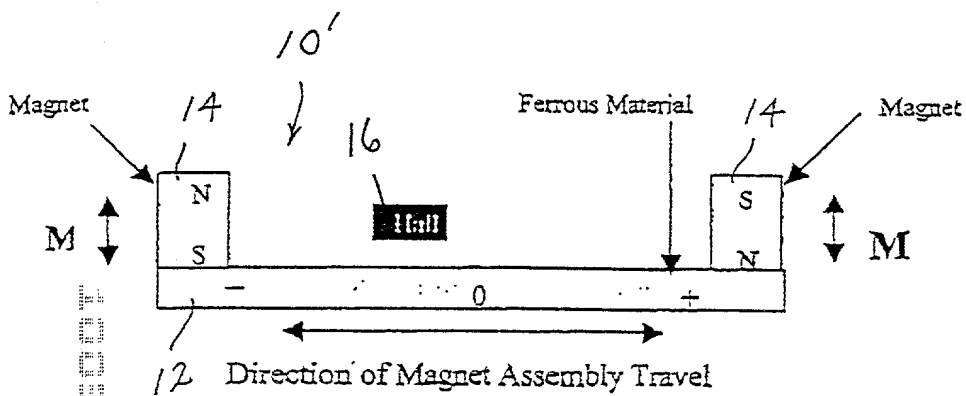


Fig. 6

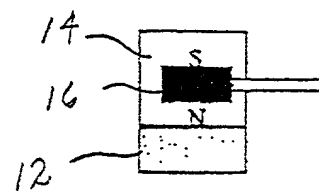
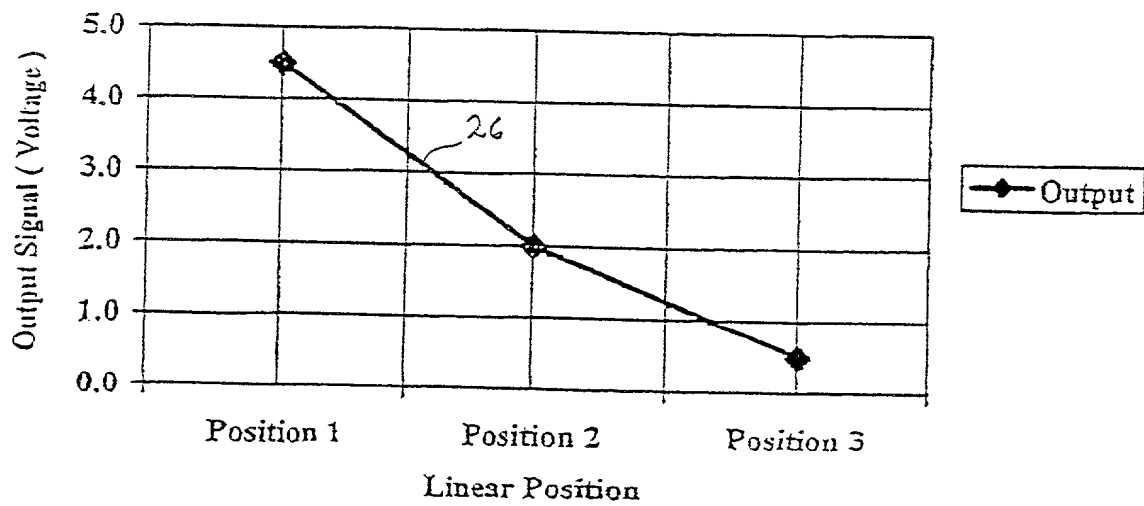
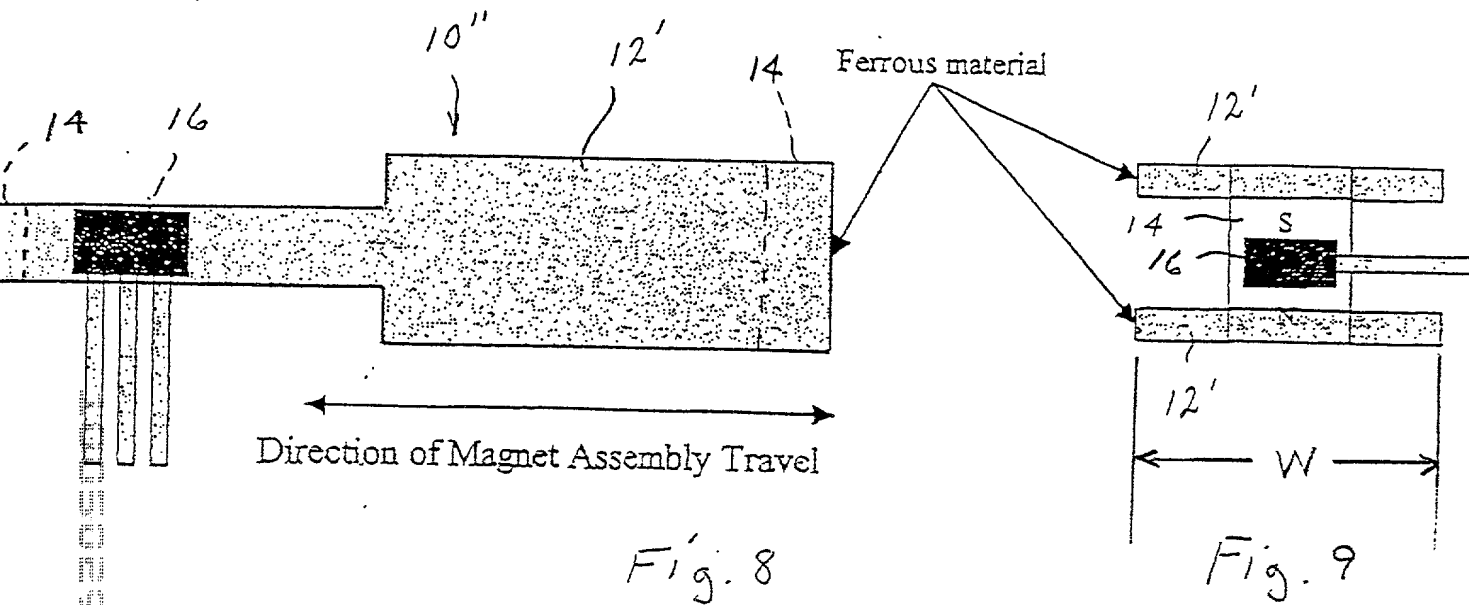


Fig. 7



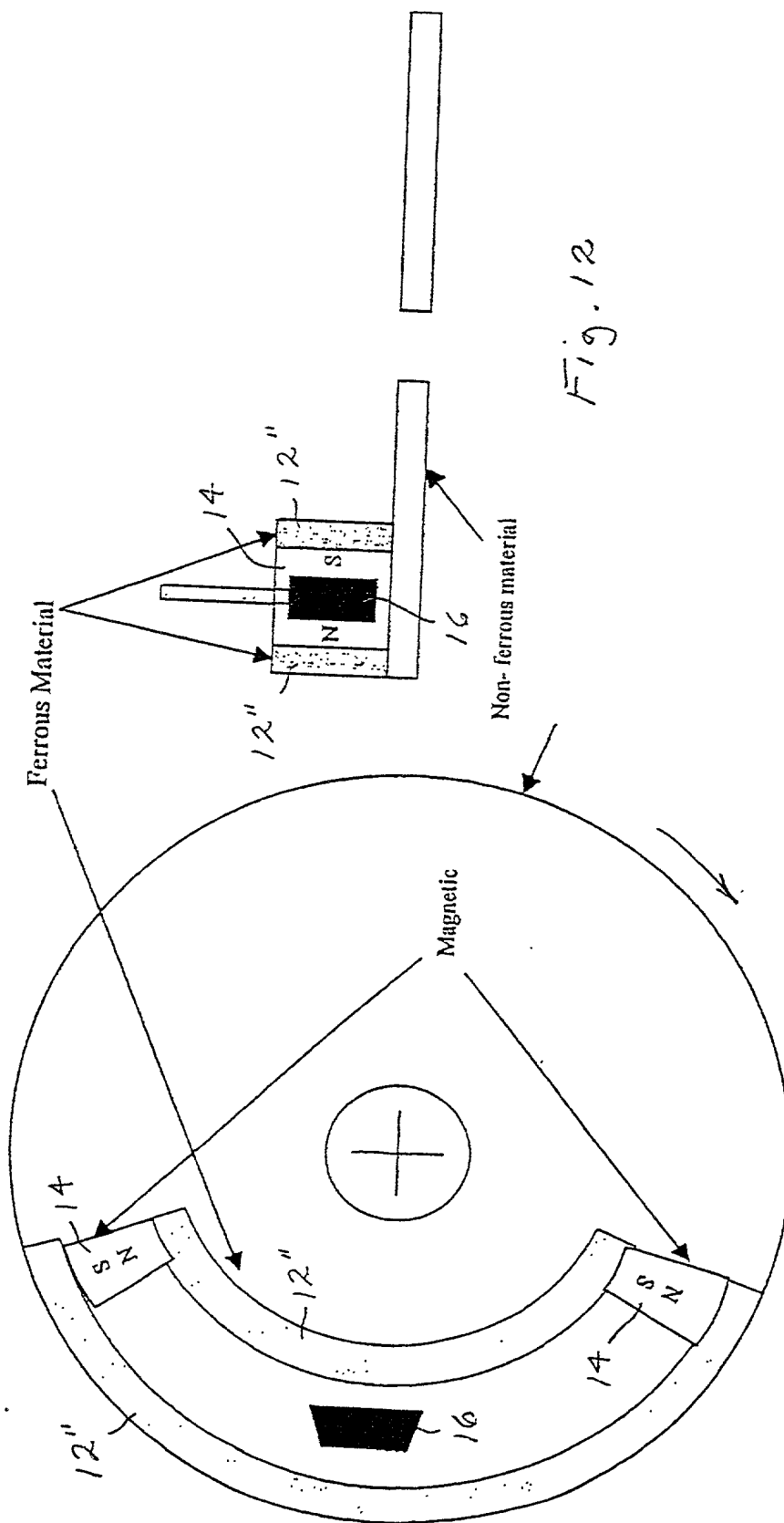


Fig. 11

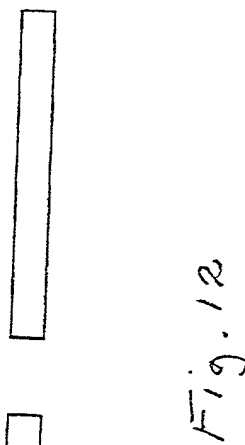


Fig. 12

THIS DOCUMENT CONTAINS INFORMATION OF A NATURE SUCH THAT DISCLOSURE OF IT IN ANY MANNER COULD BE PREJUDICIAL TO THE NATIONAL DEFENSE

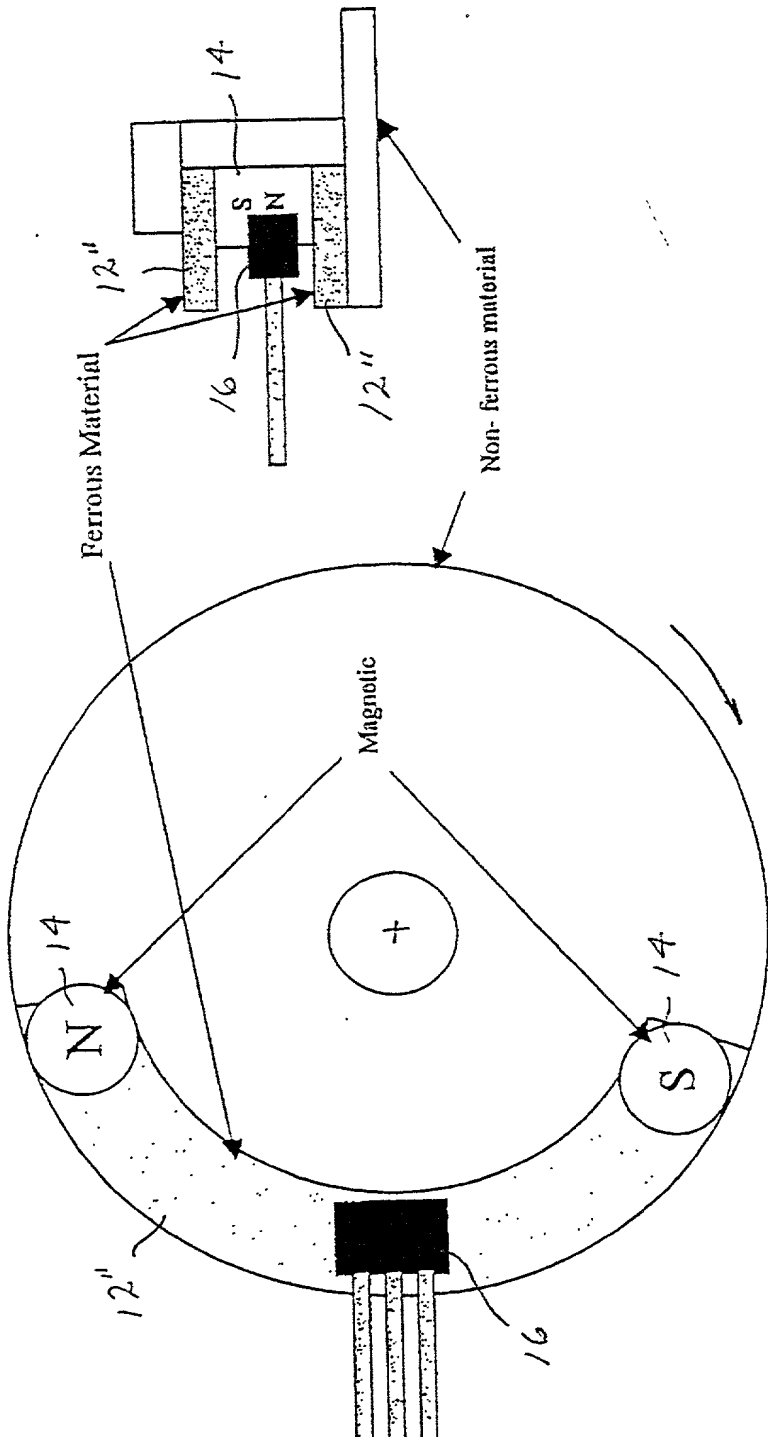


Fig. 13

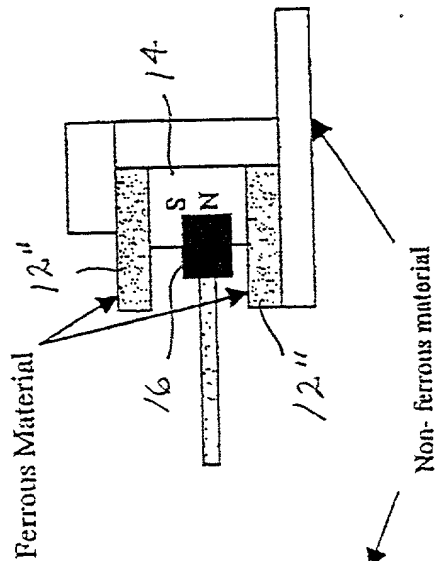


Fig. 14

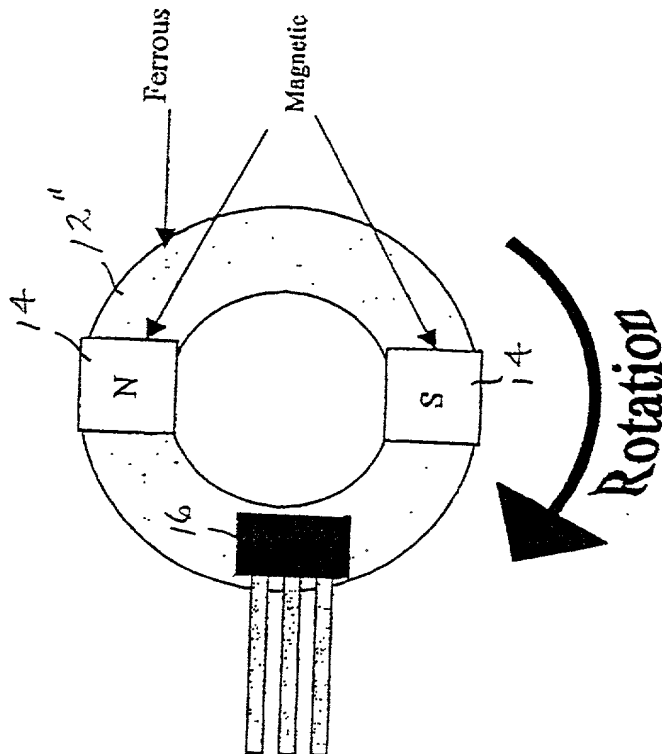
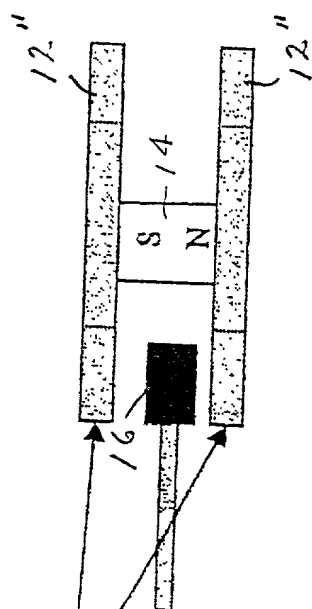


Fig. 19



F, g. 20

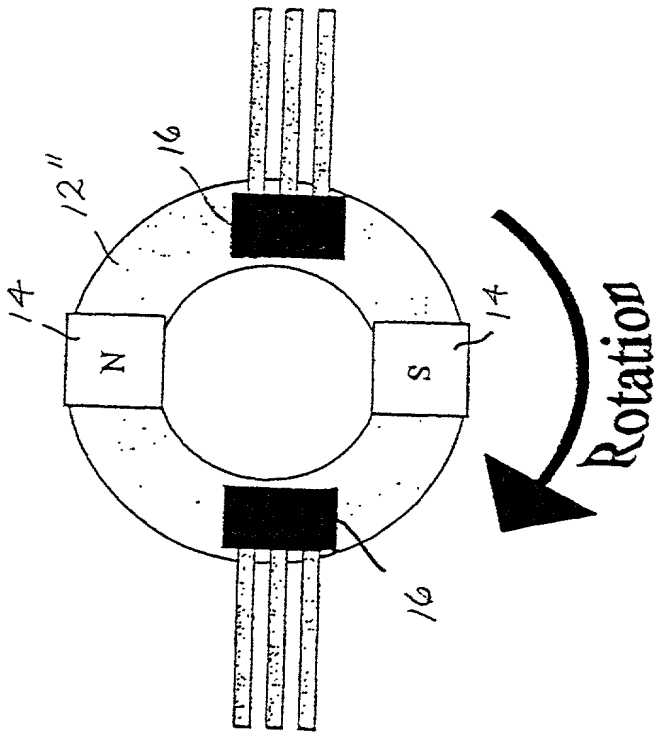


Fig. 21

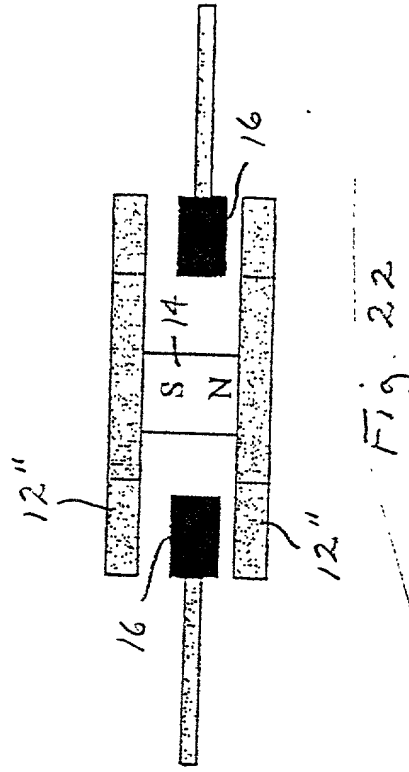


Fig. 22

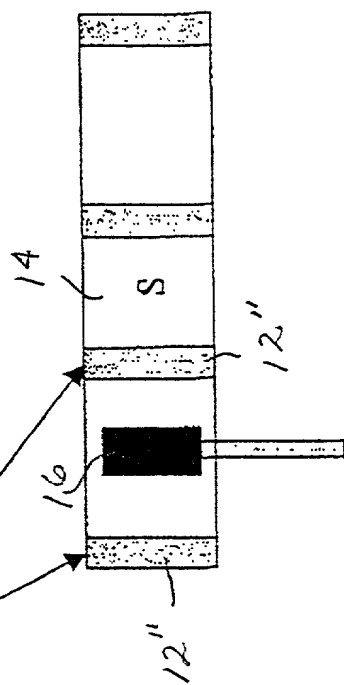
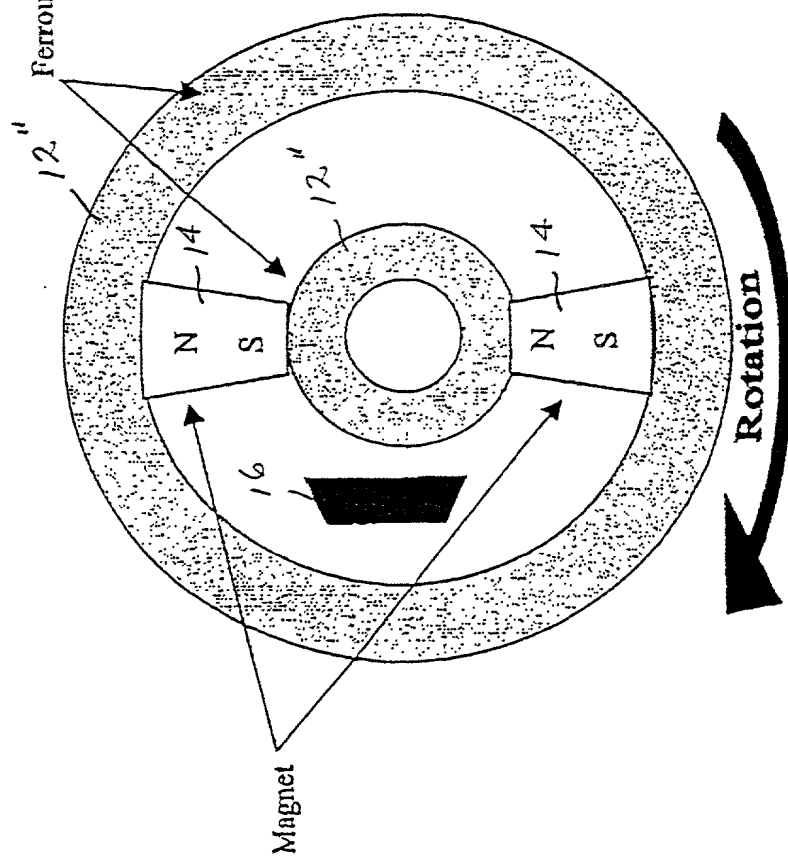


Fig. 24

FIG. 25 is a cross-sectional view of the device showing the internal components and the outer housing. The device is shown in a cross-sectional view, revealing the internal components and the outer housing. The device is shown in a cross-sectional view, revealing the internal components and the outer housing.

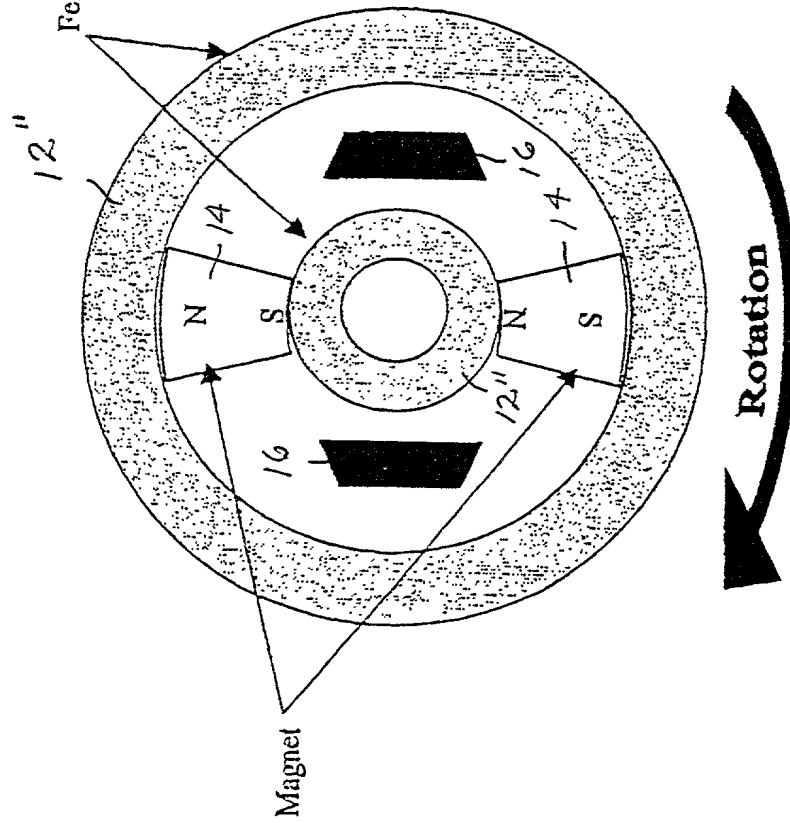


Fig. 25

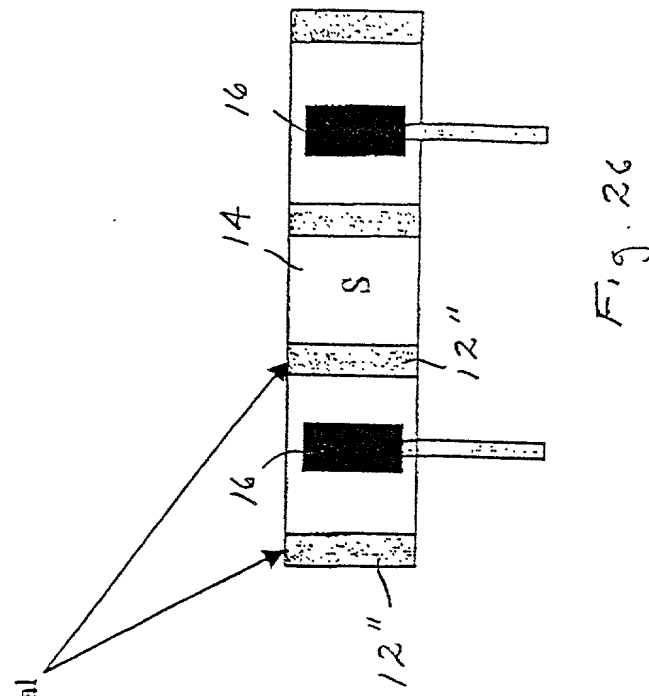


Fig. 26

1. The present invention relates to a magnet assembly for use in a magnetic recording system.

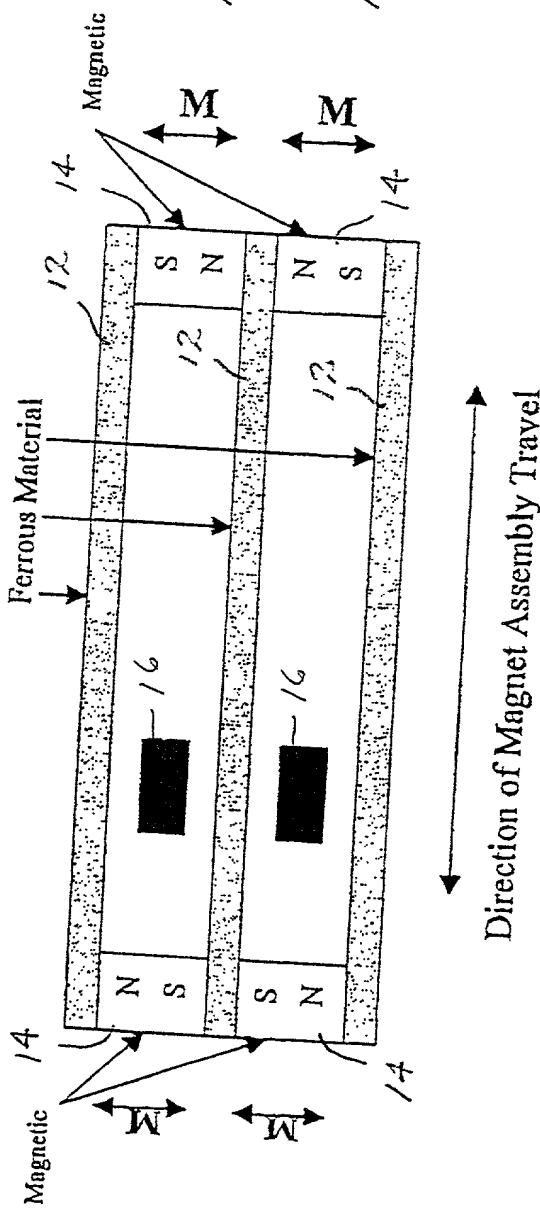


Fig. 27

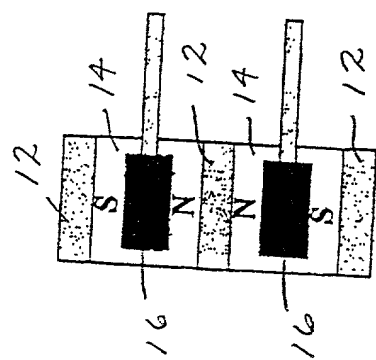
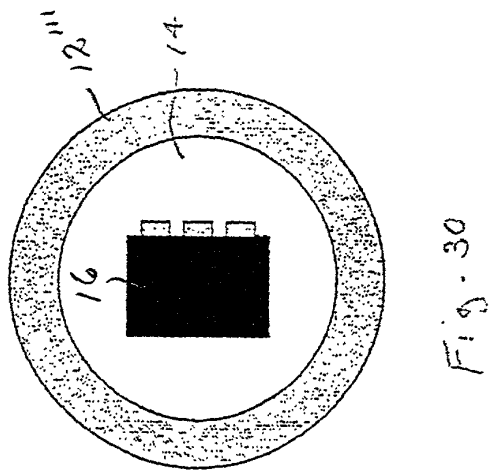
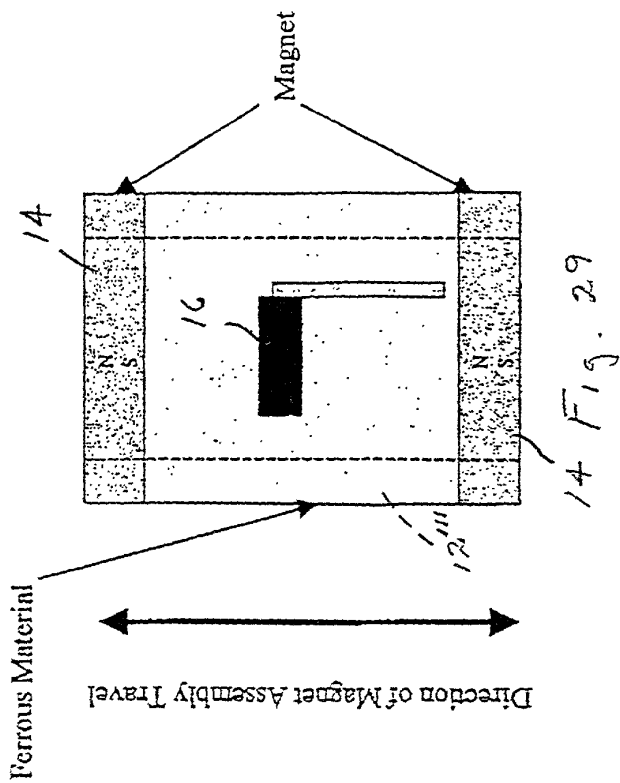


Fig. 28



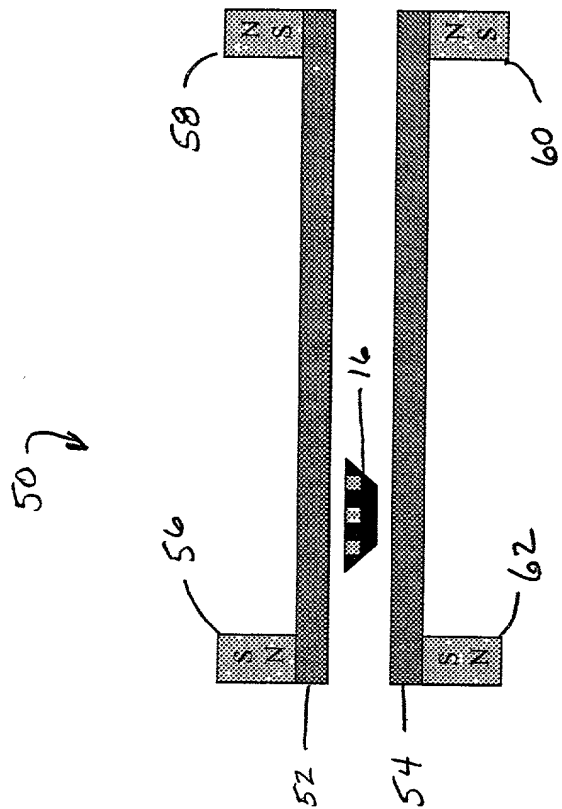


Fig. 31

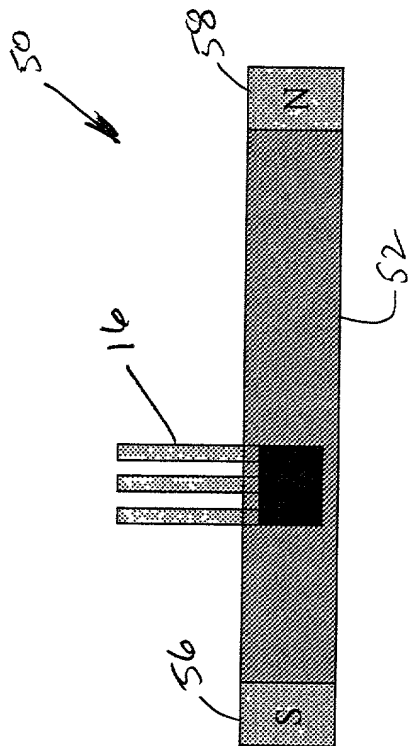


Fig. 32

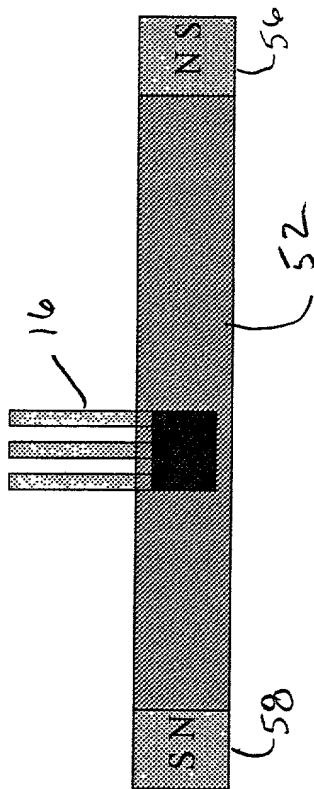


Fig. 33

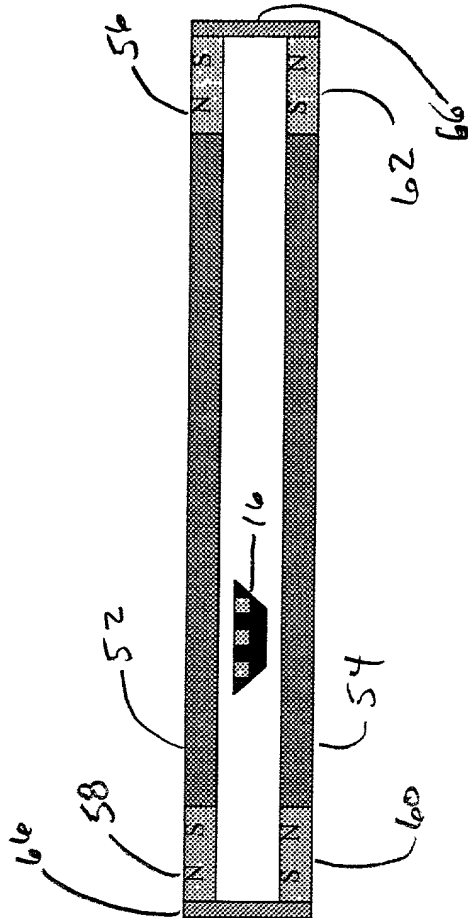


Fig. 34

Magnetic Design Comparison Between Two Internal Magnet Vs Four external Magnet Orientation about Two Ferrous Rails

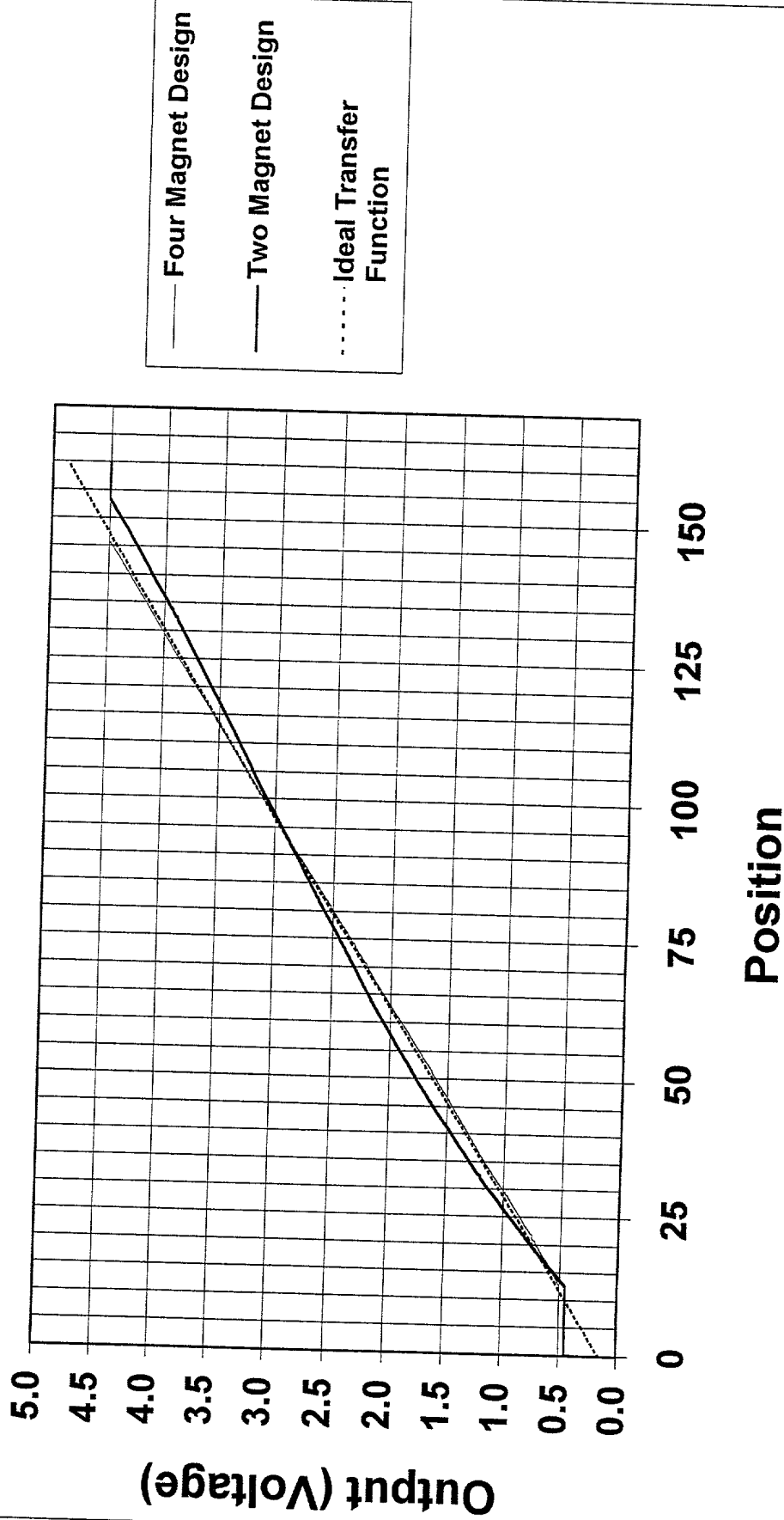


Fig 35

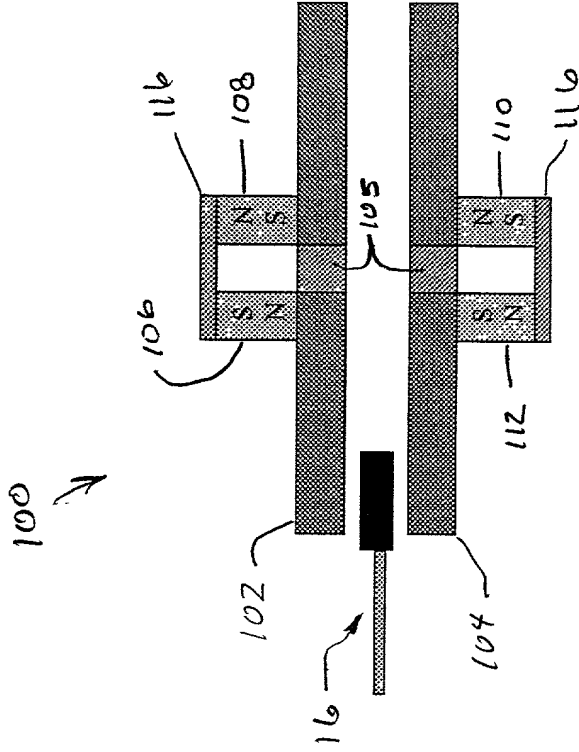


Fig. 37

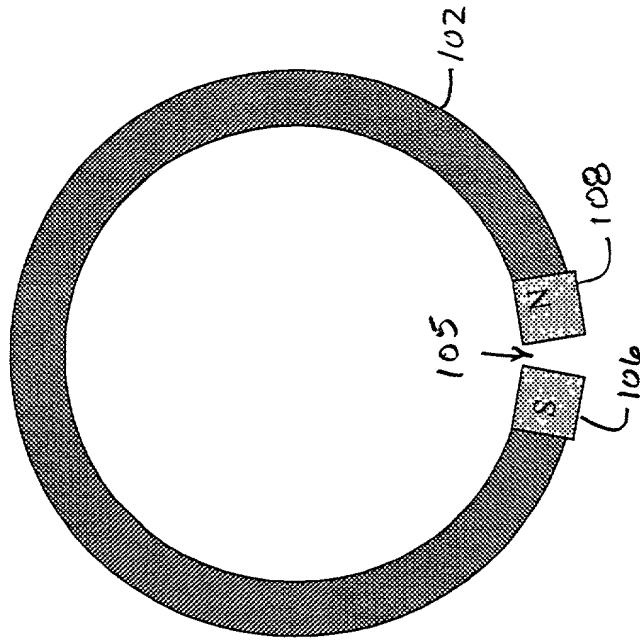


Fig. 36

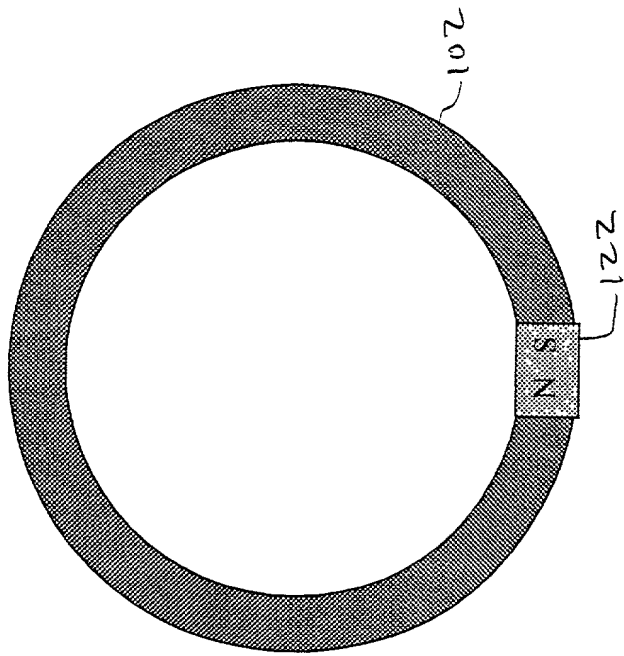


Fig. 38

120

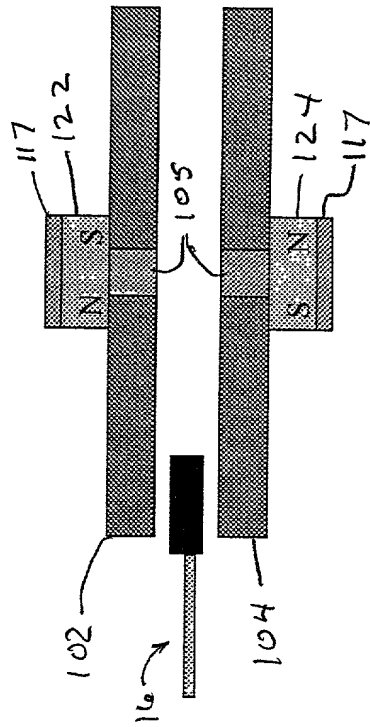


Fig. 39

FIG. 40 is a perspective view of a ring-shaped magnetic core 102. The core 102 is a toroidal core with a central opening. A magnetic core segment 122 is attached to the outer surface of the core 102. The segment 122 has a North (N) pole and a South (S) pole. The segment 122 is shown in a cross-sectional view, indicating its thickness and the location of the poles. The segment 122 is positioned such that its poles are aligned with the poles of the other magnetic core segments in the assembly shown in FIG. 41.

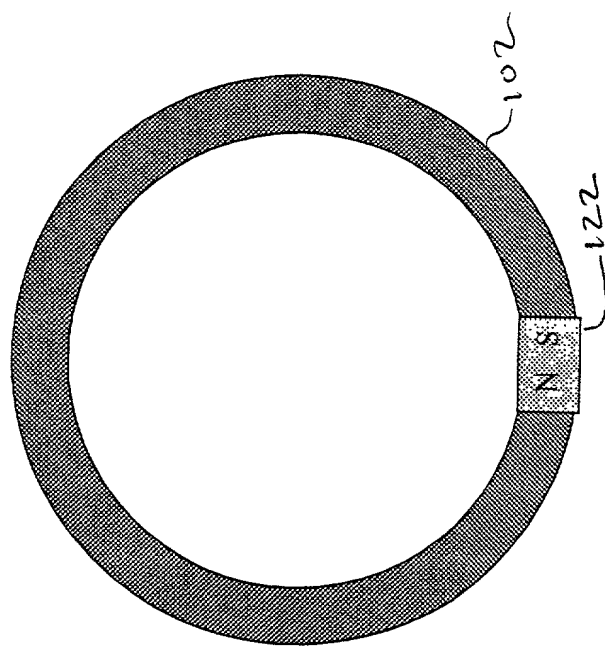


Fig. 40

120

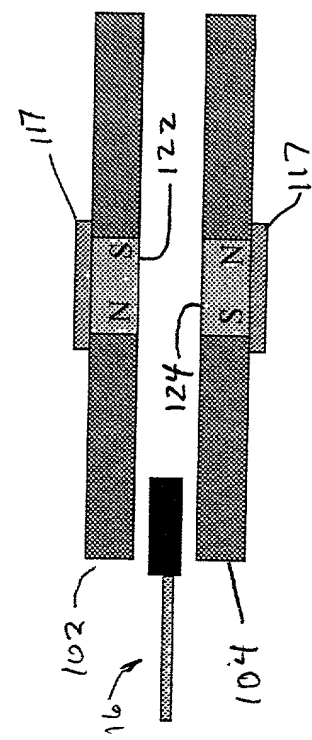


Fig. 41